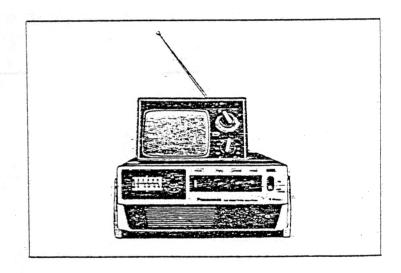
Black and White Television

TR-535/T

Chassis No.T506-A Main Manual



Specifications

Power Source: Power Consumption:

Antenna:

AC: 120V 60Hz AC: 20W

UHF/VHF Monopole antenna

Picture Tube:

Speaker:

IC:

Type 140AKB4 13 square inches 55° Deflection.

300 Ohm Balanced type Receiving Channels: TV

VHF 2ch-13ch USA Standard UHF 14ch-83ch - USA Standard

VHF and UHF External antenna

75 Ohm Unbalanced type.

Audio Output: Automatic Controls: 3-1/2" Round type Max. 360mW Keyed AGC (Automatic Gain Control)

FM 88~106 MHz Radio

AM530 ~ 1650 MHz

Saw-Tooth AFC

(Automatic Frequency Control) AVR (Automatic Voltage Regulator)

ACP (Automatic Charge Protector) ADP (Automatic Discharge

14 inches

Depth:

Frequency: Stages:

High Voltage:

Intermediate

45.75 MHz Video: 41.25 MHz Sound: 1-F: 3 Video: Sound: I-F: 1(IC)

Dimensions:

Protector) Height: 5-1/2 inches Weidth: 12-1/2 inches

25 Transistors: Diodes:

21

7.2 kV (Brightness & Contrast are MIN)

Weight:

15-1/5 lbs With Panalloid Batteries

anasonica

Matsushita Electric Corp. of America 50 Meadowland Parkway Secaucus. New Jersey 07094

Matsushita Electric of Canada Ltd. 40 Ronson Drive, Rexdale, Ont.

Matsushita Electric of Hawaii, Inc. 320 Waiakamilo Road, Honolulu, Hawaii 96817

ORDER NO. 7505-007

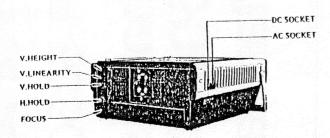
-CAUTION-

The high voltage supply at the picture tube anode will give an unpleasant shock, but does not supply enough current to give a fatal burn or shock. However, sencodary human reaction to otherwise harmless shocks have been known to cause injury. Always discharge the picture tube anode to the receiver chassis before handling the tube.

Certain portions of the high voltage generating circuit are dangerous and extreme caution should be observed. The picture tube is highly evacuated and, if broken, glass fragments will be violently expelled.

WHEN HANDLING THE PICTURE TUBE, ALWAYS WEAR GOGGLES AND PROTECTIVE CLOTHING.

Fig. 1



-ADJUSTMENTS

VERTICAL HEIGHT AND VERTICAL LINEARITY (Fig. 2)

(1) These controls (VR32 and VR33) should be adjusted at the same time to give proper vertical size consistent good vertical linearity. The adjustment should be made to extend the picture limits approximately 3/16" (5 beyond the top and bottom edges of the mask.

AGC (AUTOMATIC GAIN CONTROL)

The adjustment of the AGC control effectively changes the operating point of the AGC amplifier. Turn the a control fully clockwise to set for maximum gain. In some areas this may cause clipping of the sync pulses, resulting wiggle in the picture and unstable sync. Turning the AGC control in a counterclockwise direction will decrease the of the receiver and diminish the wiggle.

TO ADJUST THE AGC PROPERLY (Fig. 3)

- (1) Set the channel selector to a station transmitting a strong signal.
- (2) Set the R-F AGC control VR 19 to the center position.
- (3) Turn the I-F AGC control VR 18 fully counterclockwise, and the contrast and brightness controls fully clocks
- (4) Adjust the I-F AGC control VR 18 to obtain a sharp and clear picture. If I-F AGC control VR 18 is turned (clockwise, the input signal strength will be maximum.
- (5) Observing the input signal, turn the R-F AGC control VR 19 clockwise or counterclockwise to the point where snow noise disappears in the picture.
- (6) Check the reception on all channels. There should be no wiggling. Make certain the picture does not disap when the contrast control is turned to minumum.
- (7) Readjust AGC control slightly, if necessary. In very strong signal areas, where slight sync clipping is still evid shorten antenna length or use a pad with an outside antenna to reduce signal input.

YOKE POSITION (Fig. 5)

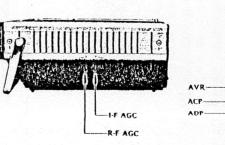
The yoke is secured to the neck of the picture tube with an angular clamp and screw. To adjust the yoke and cor for picture tilt, loosen this clamp. Correct tilt and retighten the screw.

CENTERING (Fig. 5)

The picture centering device consists of two rings located at the rear of the yoke assembly. Each ring has a tab for of adjustment. The tabs should be rotated and moved towards or away from each other until the picture is prop centered on the screen of the picture tube.

FOCUS (Fig. 2)

Adjust the focus control (VR64) for the sharpest and clearest picture,



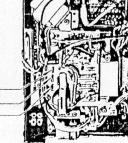




Fig. 3

Fig. 4

Fig. 5

-DISASSEMBLY INSTRUCTIONS

Upper Cabinet Removal

1. Remove 5 mounting screws (A) shown in Fig. 6 and Fig. 7.

POP-UP Block Removal

- 1. Remove the upper cabinet.
- 2. Remove 4 screws (B) shown in Fig.8.
- 3. Picture Tube: Remove 4 screws Oshown in Fig.9.
- 4. Tuner Block: Remove 3 screws Dshown in Fig.9.

Radio Block Removal

- 1. Remove the upper cabinet, 3 connectors and the picture tube Barrler as shown in Fig.10.
- 2. Pull off the selector switch knob and the radio tuning dial.
- 3. Remove 2 screws Eshown in Fig.12.

Volume Block Removal

- 1. Remove the upper cabinet and the radio block.
- 2. Remove 2 screws Shown in Fig.11.

Speaker and Power switch Removal

- 1. Remove the upper cabinet and the volume block,
- 2. Remove 2 screws (G) shown in Fig. 12.

Main Circuit Board Removal

- 1. Remove the upper cabinet.
- 2. Pull off the V.Hold knob and H.Hold knob.
- 3. Remove a screw(A) shown in Fig.11.
- 4. Pull the main circuit board upward.

Power Circuit Board Removal

- 1. Remove the upper cabinet and the PUP-UP block.
- 2. Remove a screws (1) and 4 screws (1) shown in Fig. 13 and Fig. 11

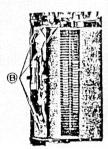


Fig. 8

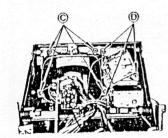
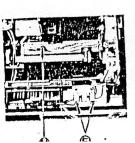
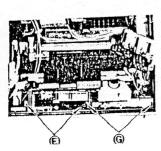
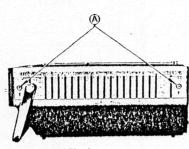
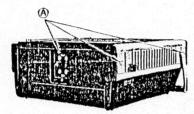


Fig. 9









PICTURE TUBE

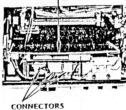


Fig. 10

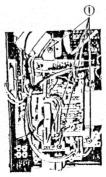
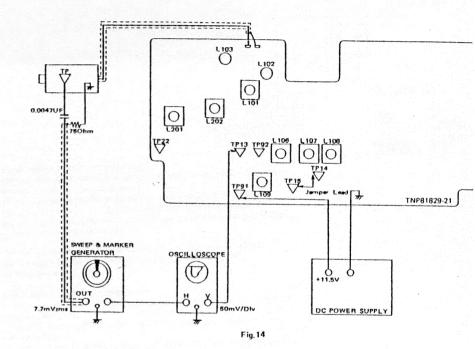


Fig. 13

VIDEO I-F ALIGNMENT

PREPARATION

- 1. Sweep & marker generator, oscilloscope and DC power supply Connect and set as shown in Fig. 1
- 2. Connect the jamper lead between TP14 and TP15 as shown in Fig. 14

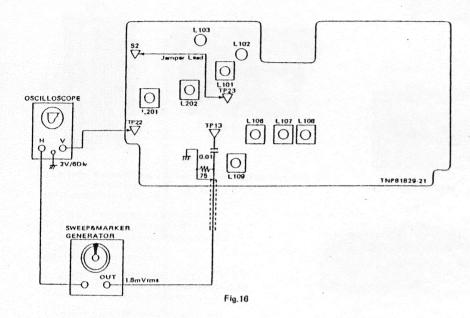


ALIGNMENT PROCEDURE

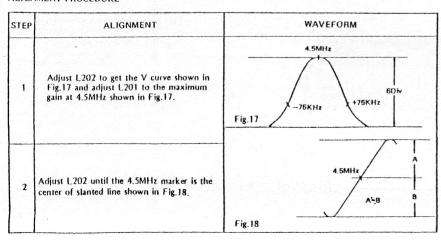
STEP	ALIGNMENT	WAVEFORM
1	Adjust L103 for the 41.25MHz marker position to fall shown in Fig.15.	39.75MHz 1.5Diy 47.25MHz
2	Adjust L102 for the 47.25MHz marker position to fall shown in Fig.15.	5.4Div 45.75MHz
3	Adjust both L101 and tuner convertor coil to obtain the correct responce carve—shown in Fig.15.	43.00MHz 44.00MHz
		Fig.15

PREPARATION

- 1. Set the power switch to "ON" position.
- 2. Turn the volume fully counterclockwise.
- 3. Sweep & Marker generator and osilloscoe... connect and set shown in Fig. 16.
- 4. Connect the jamper lead between S2 and TP23 as shown in Fig. 16.



ALIGNMENT PROCEDURE



CONNECTIONS

Connect as shown in Fig. 19

PREPARATION

- 1. Turn the VR71 fully counterclockwise.
- 2. Turn the VR72 and VR73 fully clockwise.

A. ACP circuit alignment procedure

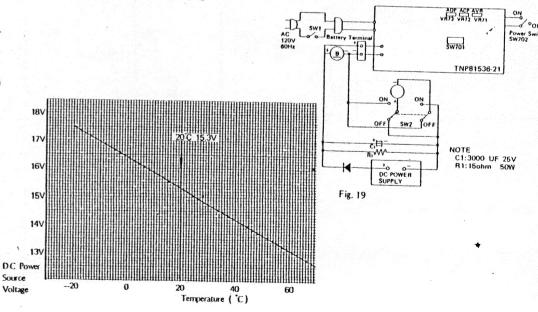
- 1. Set the SW-1 and the SW-2 to ON position, and set the SW701 and the SW702 to OFF position.
- 2. Adjust the DC power supply voltage indicating V1 meter to the value which it indicates Fig. 20 (Be sure to check the temperature. The voltage is changed by the temperature.)
- 3. Turn the VR72 colckwise and set the point where the charge lamp has started iluminating.
- 4. Confirm the operating voltage of ADP circuit shown in Fig.20 by rising the DC power supply voltage and droping it.

B. AVR adjustment procedure

- 1. Set the SW-1 to ON position and the SW-2 to OFF position.
- 2. Set the V1 voltage to 11.5V by adjusting the AVR control VR71.

C. ADP circuit adjustment procedure

- 1. Set the SW-1 to OFF and set the SW-2, SW-3 and SW702 to ON position.
- 2. Set the VI voltage to 11.0V by adjusting the DC power supply.
- 3.Set the point where the A1 ammeter has started swinging to zero by turning the VR72 counterclockwise.
- 4. Confirm the operating voltage (11,0V) of ADP circuit by rising the DC power supply voltage and droping it.



NEW CIRCUIT EXPLANATION

VIDEO I-F AMPLIFIER & AGC CIRCUIT (IC11 #PC595C)

The tuner output is coupled through input filter to terminal pin No.1 of IC 11. In the IC, the output from the input filter is amplified through the first amplifier stage and is then coupled to the gain control circuit, the output of which is further amplified and supplied to the succeeding stage filter.

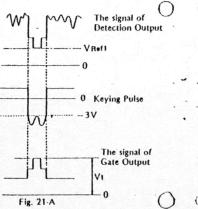
Meanwhile, control signal from the I-F AGC amplifier is coupled to the gain control circuit: this control signal controls the gain of the video amplifier to stabilize the video amplifier output, that is, detection output,

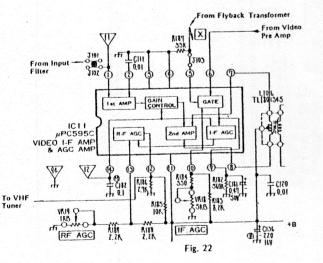
The output of the I-F AGC amplifier is also coupled to the R-F AGC amplifier for comparison with a reference voltage VREF2 applied to IC terminal pin No. 13. The R-F AGC amplifier has a delayed AGC function and supplies AGC bias from terminal pin No. 12 of IC to the VHF tuner.

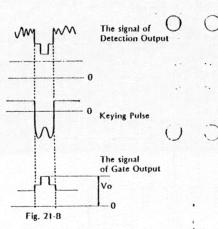
The gate circuit operates as keyed AGC. The detection output is coupled to IC terminal pin No.6, reference voltage VREF1 to terminal pin No.10, and keying pulse signal to terminal pin No.5, these signals being related as shown in Fig. 21. The output of the gate circuit is provided only during the presence of a keying pulse, and its level according to the level of the detection output, as shown in Figs. 21-A and B, the level is reduced with decreasing detection output.

The gate circuit output is rectified through diode within the IC and filter connected to IC pin No.9, and the rectified output is applied to the I-F AGC amplifier. The amplified voltage output from the I-F AGC amplifier is applied to the gain control circuit for controlling the gain of the I-F amplifier.

Since the I-F signal from the input filter is amplified before it is coupled to the gain control, application of AGC voltage will not result in variation of the picture



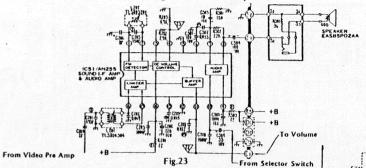




SOUND DETECTOR & AUDIO AMPLIFIER CIRCUIT (IC 51 AN255)

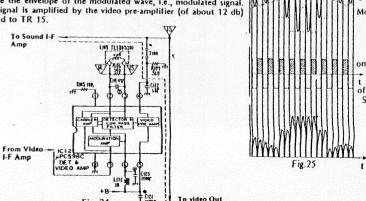
- The sound I-F signal from C200 is coupled through the input filter consisting of L201 and C201 to terminal pins No.15 and No.16 of IC 51.
- The coupled signal is amplitude-limited by the limiter amplifier to a constant amplitude, and then it is fed to the FM detector and resonant circuit consisting of C205, L202 and C206.
- The output of the resonant circuit, phase shifted from its input, is coupled to the FM detector.
- In the FM detector the difference between its two inputs is taken to produce low-frequency output,
- The low-frequency detected signal is led to the D-C volume control circuit.
- Here, the detected output is reduced to the same level as the radio output through R202 and R203 (the detected output level being increased by reducing the voltage on terminal pin No.4 of IC 51).

- The detected output having been reduced to the same level as radio output through the D-C volume control circuit is applied to the buffer amplifier, the output of which is coupled to IC terminal pin No.11 for quality adjustment through C208 cutting off high frequency components.
- The resultant output is coupled to VRS1 for volume control before being coupled to the audio amplifier.
- The audio amplifier is a negative feedback amplifier and reduces distortions. The magnitude of the negative feedback is determined by the resistances of R502 and R501; by reducing the resistance of R501 the negative feedback is reduced to increase the gain of the audio amplifier

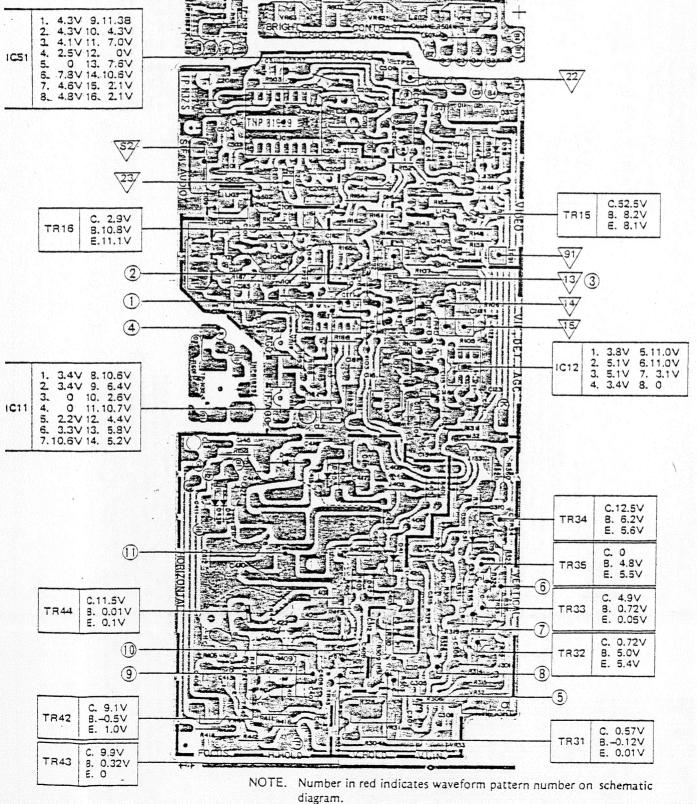


VIDEO DETECTOR & VIDEO AMPLIFIER CIRCUIT (IC 12 #PC 569C)

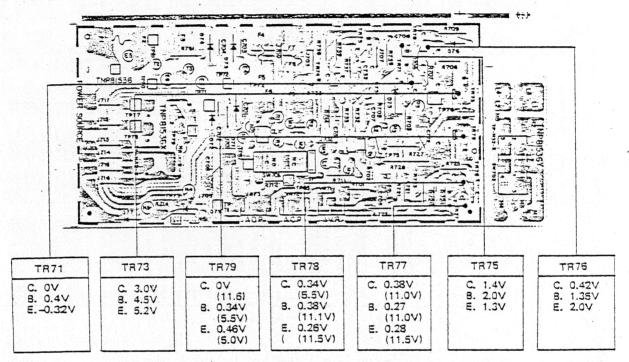
- The output from IC 11 is coupled through interstage filter to terminal pin No. 7
- The interstage filter has a triple tuning construction providing an improved skirt characteristic over the conventional circuit in order to cope with disturbances by signals outside the necessary band
- In IC 12 the input is coupled through two separate paths. In one of these paths It is directly amplified to provide inputs to the synchronous detector (the inputs Md1 and Md2, as shown in Figs. 25-A and C, being 180 degrees out of phase from each other)
- In the other path, the input is led to the carrier amplifier for limitting, and video subcarrier signals S1 and S2 (which are 180 degrees out of phase from each other as shown in Figs. 25-B and D) are derived from the resonant circuit consisting of L109 and C119 and coupled as switching signal to the synchronous detector.
- The inputs Md1 and Md2 are switched in synchronism to the subcarrier frequency, and only when the switching signal is positive the modulated wave is allowed to appear at the output of the detector (as shown in Fig. 25-E).
- The detector output thus consists of half-cycle modulated signal portions of like polarity. The half-cycle modulated wave portions are passed through the low-pass filter to demodulate the envelope of the modulated wave, i.e., modulated signal,
- The demodulated signal is amplified by the video pre-amplifier (of about 12 db) before being coupled to TR 15.



CONDUCTOR VIEW (TNP81829-21)

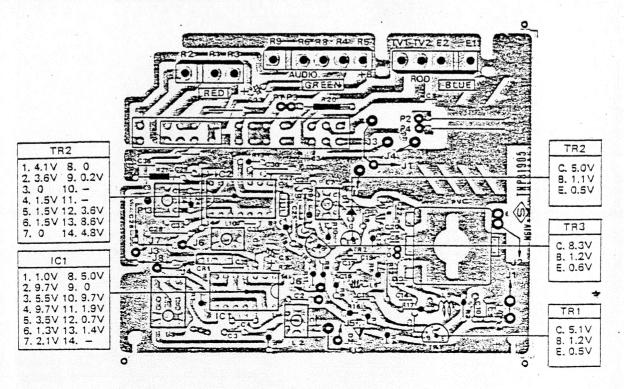


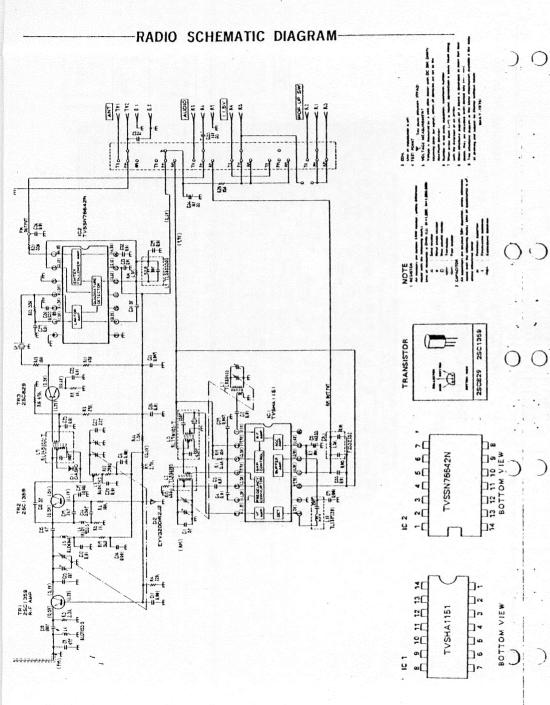
POWER SOURCE CIRCUIT BOARD CONDUCTOR VIEW (TNP81536-21S)



NOTE. The voltage in parenthesis is measured, when the power switch is set to "off" position.

-RADIO CIRCUIT BOARD CONDUCTOR VIEW (TNQ8215)





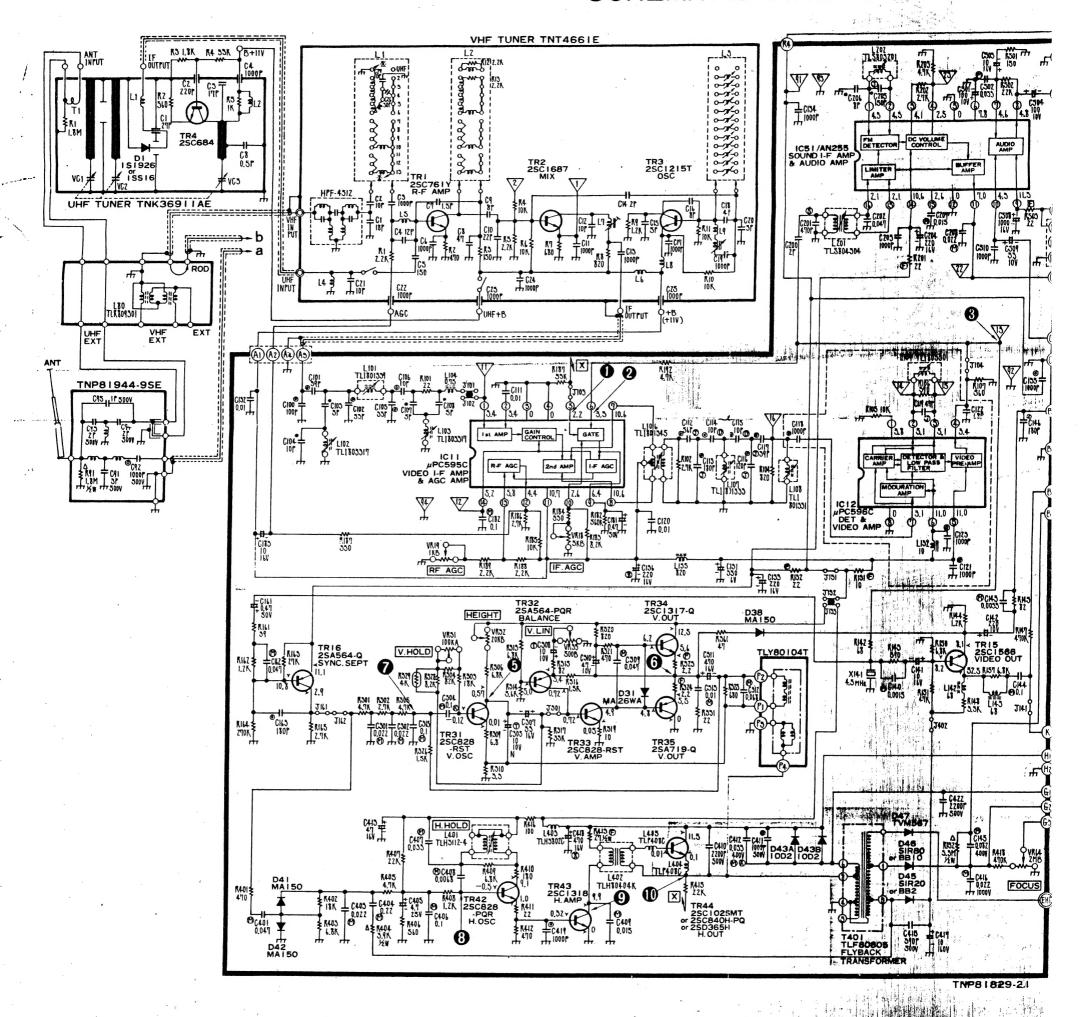
REF. NO.	PARTS NO.	PARTS NAME & DE	SCRIPTION		REF. NO.	PARTS NO.	PARTS NAME & DESCRIPTION			
	TNQ8215 RADIO BOARD					CAPACITORS				
	A'SSY PARTS						현실하여 기계를 보고 하는 사람들이 살았다.			
R-1	TKK800372	Dial Film Complete		- 11	Cl	ECCD I HOSOCC	Ceramic 4PF +0.25PF-0.25PF Ceramic 0.01UF +100%-0%	501		
R-2	TSE80305	Selector Switch			C2 C3	ECCD1H103PF ECCD1H103PF	Ceramic 0.01UF +100%-0% Ceramic 0.01UF +100%-0%	501		
R-3	RDT9056A				C4	ECCD1H103PF	Ceramic 0.01UF +100%-0%	50		
R-4 R-5	RME11D RDD310A	Tuning Shaft Stopper Poly Variable Capacito	or Drum		ČŠ	ECEA16V33L	Electrolytic 33UF	161		
R-6	RD\$4060A	Thread Spring			C6	ECKD1H102KB	Ceramic 1000PF +10%-10% Ceramic 1000PF +10%-10%	SOV		
R-7	RDR13	Guide Roller			C7	ECKD1H102KB	Ceramic 1000PF +10%-10%	501		
R-8	RDR14	Guide Roller			C8	ECKDIHO80KB ECCDIH470KC	Ceramic 8PF +10%-10% Ceramic 47PF +10%-10%	501		
R-9 R-10	RDR21 RDY31A	Guide Roller Roller Stay			C9 C10	ECCDIHIOIK	Ceramic 100PF +10%-10%	501		
					CII	ECCD1H102KB	Ceramic 1000PF +10%-10%	501		
R-11 R-12	RNW230A RDF7A	Roller Stopper Dial Roller			Ci2	ECCDIH102KB	Ceramic 1000PF +10%-10%	50		
R-12	RUS108A	Spread Spring			C13	ECCDIH1811C	Ceramic 180PF +5%-5%	501		
R-14	RDS07-4	Rope			C14	ECCDIHIO2KB	Ceramic 1000PF +10%-10%	50		
R-15	PVC2LX20T-3M	Poly Variable Capacite	or		CIS	ECCDIHO40C				
ı	CS	•			C16	ECKD2H331KB ECCD1H240JC	Ceramic 330PF +10%-10% Ceramic 24PF +5%-5%	500		
· ·	THERALIE	AM Radio			C17	ECCDIHOSOCC	Ceramic SPF +0.25PF-0.25PF	50		
C1 C2	TVSHA1151 AM Radio TVSSN76642N Limiter, FM Det.					ECCD1H102KB	Ceramic 1000PF +10%-10% 5			
					C20	ECKD1H103ZF	Ceramic 0.01UF +80%-20%	50'		
1	RANSISTORS						205	***		
RI	25C1359A	RF			C22	ECCD1H240JC ECCD1H103PF	Ceramic 24PF +5%-5% Ceramic 0.01UF +100%-0%	50		
FR2 FR3	2SC1359A 2SC829B	Convertor Sound I-F			C24	ECCDIHIO3KB	Ceramic 0.01UF +10%-10%	50		
		30			C25	ECCD1H103PF	Ceramic 0.01UF +100%-0%	50		
ι	DIODES				C26	ECCD1H473ZF	Ceramic 0.047UF +80%-20%	50		
16	OA90 Limiter				C27	ECCD IH 103KB	Ceramic 0.01UF +10%-10% 50 Ceramic 0.01UF +10%-10% 50			
)3	EYV320D1R2JA	Voltage Stabilizer			C28 C29	ECCDIHIO3KB ECCDIHIO3PF	Ceramic 0.01UF +100%-0%	50		
COILS & TRANSFORMERS					C30	ECQM05333MZ	Polyester 0.033UF +20%-20%	50		
LJ .	TER80113	AM Antenna Coil			C31	ECCD1H150JC	Ceramic 15PF +5%-5% Ceramic 0.01UF +100%-0%	50		
2	TLR80205	AM OSC Coll			C32	ECCDIHIO3PF	Ceramic 0.01UF +100%-0%	50 16		
.3	RLI7W105Q-T	455KHz Combination FM Peak Coll	Filter		C33	ECEA16V33L ECEA16V33L	Electrolytic 33UF Electrolytic 33UF			
L4 L5	RLQY15S-5 RLD4Y44	FM R-F Coll			C35	ECKD1H103KB	Ceramic 0.01UF +10%-10%	50		
L6	RLOY755-5	FM Peak Coll			C36	ECCD1H103PF	Ceramic 0.01UF +10%-10%	50		
17	RL148153-T	FM I-F Trans.			C37	ECKD1H473ZF	Ceramic 0.047UF +80%-20%	50		
8	RLO4Y43	FM OSC Coll				O COMOINATION				
L9 L10	TLS803308 TLI807201	FM I-F Trans AM I-F Trans			•	R COMBINATION				
	RESISTORS				CRI	EXAF2532152 TFCAIOR7A	Combination Resistor			
		C-t ECVOL-	, % +5%—5%	1/ W		IRACKETS				
R1 R2	ERD14VJ562 ERD14VJ103	Carbon 5.6KOhm Carbon 10KOhm	+5%-5%	XW XW						
R3	ERD14VJ222	Carbon 2.2KOhm	+5%-5%	%w	R-16	TKK809816	Radio Complete Mounting Bracket Slide Switch Mounting Bracket			
₹4 ₹5	ERD14VJ223 ERD14VJ102	Carbon 22KOhm Carbon 1KOhm	+5%-5% +5%-5%	KW KW	R-17 R-18	TKK809827 TUC80927	Shield Plate			
R 6	ERD14VJ103	Carbon 10KOhm	+5%-5%	%w	-	L				
17	ERD14VJ272	Carbon 2.7KOhm	+5%-5%	4W	T	NP81829-21 M	AIN CIRCUIT BOARD	4		
8.5	ERD14VJ273	Carbon 27KOhm	+5%-5%	%w		<u> </u>				
₹9 ₹10	ERD14VJ102 ERD14VJ472	Carbon 1KOhm Carbon 4.7KOhm	+5%5%	WW	•	C	그러면 그림생님이 그 나타일었다			
					ICH	TVSMPC595C	Video i-F			
R11.	ERD14VJ471 ERD14VJ391	Carbon 4700hm Carbon 3900hm	+5%5%	XW	IC12 IC51	TVSMPC596C AN255	Video Detector Sound 1-F			
R13	ERD14V331	Carbon 3300hin	+5%-5%	%w		T	1			
R14	ERD14VJ682	Carbon 6.8KOhm	+5%-5%	Y.W	1	RANSISTORS				
R15	ERD14VJ681	Carbon 680Ohm	+5%5%	%w	TRIS	2SC1566	Video Output			
R16	ERD14VJ152	Carbon 1.5KOhm	+5%-5%	%w	TR16	25A564A	Sync. Sep.			
217	ERD14V)561	Carbon \$600hm	+5%-5%	%W	TR31	2SC828A	Vert, Switching Vert, Stability			
R18 R19	ERD14V)151 ERD14T)151	Carbon 1500hin Carbon 1500hin	+5%-5% +5%-5%	%w %w	TR32 TR33	2SA564A 2SC828A	Vert. Stability			
R 20	ERD14TJ151	Carbon 1500hm	+5%-5%	14W						
	ERD14T1331	C-1 3300'	+5%-5%	¼w	TR34 TR35	25C1317 25A719	Vert. Output Vert. Output			
R21		Carbon 3300hm			TR 15	. /NA/14	r veit Culput			

REF. NO.	PARTS NO.	PARTS NAME & DESCRIPTION	REF.	PARTS NO.	PARTS NAME & DESCRIPTION
TR42 TR43	25C828A	Horiz. Osc.	C141	ECEA16V10L	FLATA
TR44	- ,25C1318 - 25C1025MT	Horiz. Drive	C142	ECEA10V220L	Electrolytic 10UF 16 Electrolytic 220UF 10
		Horiz, Output	C143	ECQM05332KZ	Polyester 3300PF +10%-10% so
	DIODES		C144 C145	ECQM05104MZ ECQM4823MZ	Polyester 0.1UF +20%-20% 50' Polyester 0.082UF +20%-20% 40'
D31	MA 26WA MA 150	Vert. Blas Vert. Blanking	C146	ECCD1H181K	Ceramic 180PF +10%-10% 50
D41	MAISO	Horiz, AFC	C161	ECEASOZR47M	Electrolytic 4711E
D42	MA150	Horiz. AFC	C162	ECQM05473MZ	Polyester 0.047UF +20%-20% 501
D43A	TVS1002	Damper	C163	ECCDIHIBIK ECEASOZR47M	Ceramic 180PF +1090 1090 ros
D438	TVS1002	Damper	C182	ECOMOSTOMZ	
D45 D46_	TVSSIR20 TVSSIR80	Video Rectifier	C183	ECEA16VIOL	Polyester 0.1UF +20%-20% 501 Electrolytic 10UF
D47	TVM567	Focus Rectifier High Rectifier	C200	ECCD1H020CC	Ceramic 2PF +0.25PF-0.25PF 50V
	COILS	Trigh Recurier	C201	ECQS1471K ECKD1H473Z	Styrol 470PF +10%-10% 100\
		경 - 이번 시간에 이 보고 있는 경험 경험 기계	C203	ECKD IH 102MB	1
L101 L102	TL1801339	Video I-F Coll	C204	ECEA16V220L	Ceramic 1000PF +20%-20% 50V Electrolytic 220UF
L103	TL1803317 TL1803317	Self Sound Trap	C205	ECCDIHISI	Ceramic 150PF +5%-5% 50V
L104	TLTR75-999	Adjustment Sound Trap Fixed Input Coll	C206	ECCD 1H080CC	Ceramic BPF +0.25PF-0.25PF 50V
L106	TL1801345	Coupling Coll	C207	ECQM05153MZ	Polyester 0.015UF +20%-20% 50V
L107	TL1801333	Coupling Coll	C208 C301	ECOMOS 223MZ	Polyester 0.015UF +20%-20% 50V
L108	TL1801331	Coupling Coll	C302	ECQM05223MZ ECQM05223MZ	Polyester 0.027UF +20%_20% cov
L109	TL1805301 TLT821-999	Video Det. Coll	C304	ECOMOS 104KZ	Polyester 0.022UF +20%-20% 50V Polyester 0.1UF +10%-10% 50V
L132	TLT100-999	Filter Choke Coll Filter Choke Coll	C305	ECSZ10EF10N	Electrolytic TOUF 10V
L142	TLT680-999	beaking Colf	C307 C308	ECEA16V33L	Electrolytic 33UF 16V
L143	TLT680-999	Peaking Coil	C309	ECSZ10EF10N ECQM05473MZ	Electrolytic 10UF 10V
L201 L202	TLS804304	Sound I-F Input Coll	C310	ECEA10V47LE	Polyester 0.047UF +20%-20% 50V Electrolytic 47UF
401	TLS803201 TLH3112-4	Sound Det, Coll Horiz, Hold	C311	ECEA16V470L	Electrolytic 47UF 10V Electrolytic 470UF 16V
T401	TLF80805	Flyback Transformer	C312	ECQM05683MZ	
L402 L403	TLH80404K		C313	ECOMOS 103MZ	D. Continu
L404	TLH3802C	Filter Choke Coll	C315	ECOMOS 104MZ	Polyester 0.01UF +20%-20% 50V +20%-20% 50V
L405	1 1 L P 4 U B C	Choke Coll	C401 C403	ECOM05473MZ	Polyester 0.047UF +20%-20% 50V
L601	TLP408C	Chake Coll		ECQM05223MZ	Polyester 0.022UF +20%-20% 50V
	CAPACITORS		C404 C405	ECQM05224MZ ECEA25V4R7L	Polyester 0.022UF +20%-20% 50V
100	recourses		C406	ECQM05104MZ	Polyester 0.1UF +20%-20% 50V
101	ECCDIH101K	Ceramic 100PF +10%-10% 50V Ceramic 39PF +10%-10% 50V	C407	ECQM053331Z	Polyester 0.033UF +5%-5% 50V
102	ECCD1H330K	Ceramic 39PF	C408	ECQM05682KZ	Polyester 6800PF +10%-10% 50V
103	ECCD1H030K	Ceramic 3PF +10%-10% 50V	C409	ECQM05153MZ	Polyester 0.015UF +20%-20% 50V
104	ECCD1H100D	Ceramic 10PF +0.5PF-0.5PF 50V	C410	ECKD2H222MD	Polyester 0.015UF +20%-20% 50V Ceramic 2200PF +20%-20% 500V
105	ECCD1H330K	Ceramic 33PF +10%-10% 50V	C411	ECKD2H102MB	Ceramic 1000PF +20%-20% 500V
106	ECCD1H100D	Ceramic 33PF +10%-10% 50V Ceramic 10PF +0.5PF-0.5PF 50V	C412 C413	ECQM4333KZ	Polyester 0.033UF 1+10%-10% 40V
107	ECCD1H050CC	Ceramic SPF +0.25PF-0.25PF 50V		CCCATOTATE	Electrolytic 47UF
108	ECCD THOSOCC ECKWIH103PF	Ceramic SPF +0.25PF-0.25PF 50V	C415	ECKD2H391K8	Ceramic 390PF +10%-10% 500V
	CONTRIBUTE	Ceramic 0.01UF +100%-0% 50V	C416 C417	ECQE10223MZ	Polyester 0.022UF +20%-20% 10V
112	ECCD1H5601	Ceramic 56PF +5%-5% 50V	C418	ECEA160V10 ECEA16Z470	Electrolytic 10UF 160V Electrolytic 470UF 16V
113	ECCDIH1811	Ceramic 180PF +5%-5% 50V	C419	ECKD1H102MB	Ceramic 1000PF +20%-20% 50V
115	ECCD1H100D ECCD1H100D	Ceramic 10PF +0.5PF-0.5PF 50V Ceramic 10PF +0.5PF-0.5PF 50V	CARR	FCKDMISSON	
116	ECCD1H1211	Ceramic 120PF +5%-5% 50V	C422 C501	ECKD2H222MD ECEA10V100L	Ceramic 2200PF +20%=20% 500V
117	FEERMAN	27. 37. 30.	C502	ECQM05333MZ	Electrolytic 100UF 10V Polyester 0.033UF +20%-20% 50V
118	ECCD1H3901 ECKD1H102MB	Ceramic 39PF +5%-5% 50V	C503	ECEA16VIOL	Electrolytic 10UF 16V
119	ECCD1H4701	Ceramic 1000PF +20%-20% 50V Ceramic 47PF +5%-5% 50V	C504	ECENTON100F	Electrolytic 100UF 10V
120	ECKWIHIOJPF	Ceramic 47PF +5%-5% 50V Ceramic 0.01UF +100%-0% 50V	CED.	FCFALCUSSES	
121	ECKD1H102MB	Ceramic 1000PF +20%-20% 50V	C508 C509	ECEA16V1000E	Electrolytic 1000UF 16V
122			C\$10	ECKDIH102MB	Electrolytic 33UF 10V Ceramic 1000PF 50V
123	ECCD1H680K ECKD1H102MB	Ceramic 68PF +10%-10% 50V Ceramic 1000PF +20%-20% 50V		SISTORS	
131	ECEA16V3JOL	Electrolytic 330UF	К1	SISTORS	
132	ECKWIH103PF	Ceramic 0.01UF +100%-0% 50V	R101	ERD14T 220	Carbon 200hm +5%-5% 1/4W
133	ECEA16V220L	Electrolytic 220UF 16V	R102 R104	ERD141/272	Carbon 2.7KOhm +5%-5% %W
134	ECKD1H102MB	Ceramic 1000PF +20%-20% 50V	R104	ERD14T 821 ERD14T 103	Carbon 8200hm +5%-5% %W
135	ECKD111102MB	Ceramic 1000PF +20%-20% 50V	R106	ERD14T1391	Carbon 10KOhm +5%-5% ¼W Carbon 390Ohm +5%-5% ¼W
136	ECEA16Z2Z0E ECOM05152KZ	Electrolytic 220UF 16V			
	FILIMINGISTS AND I	Polyester 1500PF +10%-10% 50V	R107	ERD14TJ561	Carbon 560Ohm +5%-5% NW

REI NO.		PARTS NO.	PARTS	NAME & D	ESCRIPTION		REF. NO.	PARTS NO.	PARTS NAME & DESCRIPTION
R13	31	ERD14F1100	Carbon	100hm '1-1	+5%-5%	V/W	R413	ERDISTIES	
R13		ERD14F1220	Carbon		+5%-5%	/w	R415	ERD12F1270	_Carbon270hm+5%_5%_
R14		ERD14T 680	Carbon	680hm	+5%-5%	/w	R416	ERD14T1223 ERD14T1101	Carbon 22KOhm +5%-5% Carbon 10Ohm +5%-5%
R14	43	ERD14T1391	Carbon	3900hm	+5%-5%	%W	R418	ERD14T1474	Carbon 100hm +5%-5% Carbon 470KOhm +5%-5%
R14	14	ERD14TJ122	Carbon	1.2KOhm	+5%-5%	%W	R501	ERD14TJ151	Carbon 1500hm +5%-5%
R14	15	ERD14T1820	Carbon	820hm	+5%-5%	%w	R502	ERD14T1223	
R14		ERDIATIS64	Carbon	560KOhm	+5%-5%	WW	R503	ERD14F1220	Carbon 22KOhm +5%-5% Carbon 22Ohm 33.75%-5% 2 Carbon 1.8KOhm +5%-5%
R14		ERD14T1332	Carbon	3.3KOhm	+5%-5%	14W	R504	ERD14T/182	Carbon 18KOhm 159 co
R15		ERD14T1682	Carbon	6.8KOhm	+5%-5%	1/4 W	R581	ERD14T1560	Carbon 560hm +5%-5%
R15	"	ERD14TJ473	Carbon	47KOhm	+5%-5%	¼W	R601 R603	ERD14TJ152	Carbon 1.5KOhm +5%-5%
RIS		ERC12GK335	Solid	3.3MOhm	+10%-10%	15W		ERD14T1473	Carbon 47KOhm +5%-5%
R15		ERD14T1682	Carbon	6.8KOhm	+5%-5%	1/4 W		CERAP & CONTR	lots
R16		ERD14T1390	Carbon	390hm	+5%-5%	1/4W	X141	EFCA4R5M2	Cerap 4.5MHZ
R16		ERD14T 122 ERD14T 273	Carbon	1.2KOhm	+5%-5%	14W	VR 18	EVLS3AA00B53	I-F AGC
KIU	"	CKU141 J273	Carbon	27KOhm	+5%5%	%W	VR19 VR31	EVL53AA00B13 EVD66A25KA15	R-F AGC
R16	14	ERD14T1274	Carbon	270KOhm	+5%-5%	%w	VR32	EVLSOAA00824	Vert. Hold
R16	55	FRD14T1272	Carbon	2.7KOhm	+5%-5%	WW	11132	CYESUMMOUS 24	Height
R18		ERD14T 333	Carbon	33KOhm	+5%-5%	1/4W	VR33	EVLSOAA00852	Vert. Lineality
R18		ERD14T1564	Carbon	560KOhm	+5%-5%	1/4W	VR51	EVVCOAF25U14	Sound Volume
R18	13	ERD14T 822	Carbon	8.2KOhm	+5%-5%	14W	VR62	EVVCIAF2513X	Contrast
		CODIATION		22001			VR63	EVVCOAF25B55	Brightness
R18		ERD14T/331 ERD14T/103	Carbon	3300hm	+5%-5%	1/4 W	VR64	EVTSOAAOOB26	Focus
R18		ERD14T1272	Carbon Carbon	10KOhm 2.7KOhm	+5%-5% +5%-5%	%W %W		BRACKET	
R18		ERD14TJ331 .	Carbon	3300hm	+5%-5%	%w			
R18		ERD14T1222	Carbon	2.2KOhm	+5%-5%	%w		T15869070 T1525640	Earphone Socket
						1	108	TUC80519	Picture Tube Socket Video I-F Sheeld Case
R18	9	ERD14T/222	Carbon	2.2KOhm	+5%-5%	y.w	109	TUC80520	Video I-F Sheeld Board
R19		ERD14T1472	Carbon	4.7KOhm	+5%-5%	WW		TUC80709	TR Heat Shink
R20		ERD14F J220	Carbon		_+5%-5%_	_14W	110	TWH883440	Anode Cap with Lead
R20		ERD14F1272 ERD14F1472	Carbon	1.7KOhm 4.7KOhm	+5%-5% +5%-5%	y.w			
NZU.	'	CKU14FJ472	Carbon	4.7KOnm	+3%-3%	¼W		TAID01536 316	POWER CIRCUIT CO. L.
R30	1	ERD14T1472	Carbon	4.7KOhm	+5%5%	yw		TNP81536-21S	POWER CIRCUIT BOARD
R30	2	ERD14T 272	Carbon	2.2KOhm	+5%-5%	V.W	т	RANSISTORS	
R30		ERD14T/183	Carbon	18KOhm	+5%-5%	14W			
R 30		ERD14TJ823	Carbon	82KOhm	+5%-5%	1/4 W	TR71	25A564A	AVR
R30	5	ERD14TJ472	Carbon	4.7KOhm	+5%-5%	4W	TR73_	25D389	AVR
R30	. 1	ERDIATION					TR74	25A564A	ADP
R30	0 1	ERD14TJ682 ERD14TJ6R8	Carbon Carbon	6.8KOhm 6.8Ohm	+5%5% +5%5%	%W %W	TR75 -	25C828A	ADP
R31		ERDI4TI3R3	Carbon	3.30hm	+5%-5%	%w	TR76	25A564A	AVRAADP
R31		ERD14T1682	Carbon	6.8KOhm	+5%-5%	%W	TR77	2SA564A	ACP .*
R31	4	ERD14T/562	Carbon	5.6KOhm	+5%-5%	YW	TR78	25A564A	ACP
							TR79	25C1226A	ACP
R31		ERD14T1820	Carbon	820hm	+5%-5%	14W			
R31	7	ERD14T1152 ERD14T1333	Carbon Carbon	1.5KOhm 33KOhm	+5%-5%	½w	D	IODES	
R31		ERD14T1100	Carbon	100hm	+5%5% +5%5%	%W %W	D71	TVS10D1	D D
R32		ERD14T1821	Carbon	820Ohm	+5%-5%	%W	D72	TV510D1	Power Rectifier Power Rectifier
	1	.,,,,,			3,70.370	′" II	073	TV510D1	Power Rectifier
R32		ERD14T/471	Carbon	4700hm	+5%-5%	1/4W	D74	TVSIODI	Power Rectifier
R32		ERD14FJ2R2	Carbon	2.20hm "	+5%-5%	14W	D75	TVSEQA01-05T	Zener
R32		ERD14F12R2	Carbon	2.20hm	+5% 5%	%W			
R32		ERD14T1821 ERD14T1152	Carbon	820Ohm	+5%-5% +5%-5%	WW	D76	MA150	AVR Start
1,321	۷	CKUI41J132	Carbon	1.5KOhm	ナンプレーンプル	%W	D77 D78	TV510D1 TV510D1	Opposite Connection Protector
R321	8	ERD14T1822	Carbon	8.2KOhm	+5%-5%	14W	010	1431001	Opposite Connection Protector
R32		ERTD3ZHL4025		or 4KOhm	. 5 /4 . 5 /4	3W	c	APACITORS	
R33	1	ERD14T1220	Carbon	220hm	+5%-5%	1/4W			
R360		ERD14T1470	Carbon	470hm	+5%-5%	YW	C701	ECKD2H472PE	Carbon 4700PF +100%-0%
R40	1	ERD14T147	Carbon	4700hm	+5%5%	%W	C702	ECKD2H472PE	Carbon 4700PF +100%-0%
							C703	ECKD2H472PE	Carbon 4700PF +100%-0%
R40		ERD14T[183	Carbon	18KOhm	+5%5%	14W	C704	ECKD2H472PE	Carbon 4700PF +100%-0%
R40		ERD14T1682	Carbon	6.8KOhm	+5%-5%	y.w	C705	ECET35R22005	Electrolytic 2200UF
R40		ERC12GK392	Solld	3.9KOhm	+10%-10%	1/4 W	C706	ECEAIOVAN	Electrolytic 2205
R40		ERD14T1472 ERD14T1561	Carbon	4.7KOhm 560Ohm	+5%—5% +5%—5%	%w	C707	ECEA10V33L ECEA10V100L	Electrolytic 33UF Electrolytic 100UF
1,40	"	וסכן ויייטא	CATOON	30001111	· J / · · · · J / II	/*''	C708	ECEA25VIOL	Electrolytic 1000F
R40	7	ERD14T1223	Carbon	22KOhm	+5%-5%	4w	C721	ECQM05472MZ	Polyester 4700PF +20%-20%
R40	8	ERD14TJ122	Carbon	1.2KOhm	+5%-5%	%W	C722	ECKD2H681K	Ceramic 680PF +100%-10%
R40		ERD14T 682	Carbon	6.8KOhm	+5%-5%	KW	C731	ECQM05103MZ	Polyester 0.01UF +20%-20%
R41		ERD14Tj181	Carbon	1800hm	+5%-5%	KW	C732	ECEA25V4R7	Electrolytic 4.7UF
R41	1	ERD14T1220	Carbon	220hm	+5%5%	1/4 W			
	55.800								
R41	_ 1	ERDIATIA71	Carbon	4700hm	+5%-5%	1/4W			

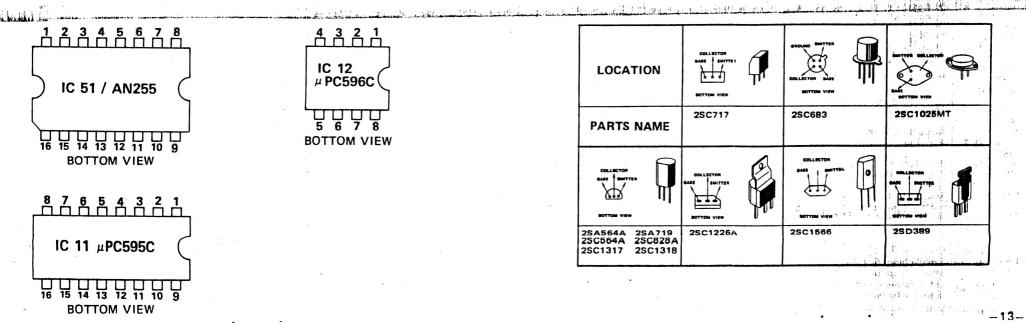
F.).	PARTS NO. PARTS NAME & DESCRIPTION					REF. NO.	PARTS NO.	PARTS NAME & DESCRIPTION			
	RESISTORS					R735 R736	ERD14TJ682	Carbon	6.8KOhm	+5%-5%	14W
-	ED01470100	*C-+	TOVOL	EN EN	1/115		ERD14TJ103	Carbon	10KOhm	+5%-5%	1/4 W
01	ERD14TJ122			+5%-5%		R737	ERD14TJ472	Carbon	4.7KOhm	+5%5%	1/4 W
02 -	ERD14T/821			+5%5%	/AW	R738	ERD14TJ123	Carbon	12KOhm	+5%-5%	1/4 W
03	ERD14TJ151		1500hm		- 14W	TR339	ERD14TJ102	Carbon	1KOhm	+5%5%	1/4 W
05				+10%-10%		3 100					
07.	ERDT4TJ221	Caroon	2200hm	- +5%-5%		RIST	ERC12ZGK185	Solid	1.8MOhm	+10%-10%	1/2 W
	1	C-1	151101		.5	LVR71	EVLSOAA00823	the last			
08	ERD14TJ153	Carbon	15KOhm	+5%-5%		₩R72	EVESOAA00814	ACP			
117			ated 0:470h		- 1/4 M.	V:R73	EVLSOAA00B53	ADP			
12_	ERD12FJ220				- 1/2WF		t≆t 9×+−000 r⊈FU.			5- Jan 22 4	1:20
14	ERD12T1681 .	Carbon	6800hm	+5%-5%	1/2 W		XBA2F04NU100	AC 0.4A		有為是認	z <u>4</u> 2
21	ERD14TJ222	Carbon	2.2KOhm	+5%-5%	- 1/4W	-112	XBA2F10NU100	DCIA			24:
			1240		,	-E13:-	XBATET6NU100	DC1.6A	Fuse	メディング 自由に	يىون:
22	ERD14TJ433	Carbon	43KOhm	+5%-5%	1/4W	2.00	SOCKET &	SWITCHE	S TOBLE		- z - .
23	ERD14T1223	.Carbon	-22KOhm	+5%-5%	1/4W	5114	TIS869080-	ACIDO	Socket		- F
24	ERD14THE		_5.6KOhm	+5%-5%	14W		TSE80606-	Pop up			
25	ERD14TTTO	Carbon.	.100hm	+5%-5%	14W		TSE80704	Power S			
26	ERD14TJ103	Carbon	10KOhm-	+5%-5%	1/4W				18) L. Gel (L. G.		
			22221			В	RACKET & SCREW	S			
27	ERD12T/201	Carbon	2000hm	+5%-5%	1/2 W						
28	TRF2SKIRO		ne 10hm		2W	117	TUC80709	Heat Thi			
31	ERTD2FHL332		or 3.3KOh		2W		XTV3+88	TR73, M	lounting Scree	v	
	ERD14TJ332	Carbon	3.3KOhm	+5%-5%	1/4W		XSB3+10S	TR79, M	lounting Scre	V	
32	ERD14T1223	Carbon	22KOhm	+5%-5%	1/4 W		XNG3BS	TR79, M	lounting Nut		
33 34	ERD14T1123	Carbon	12KOhm	+5%-5%	1/4 W		XWA3B		lounting Wash		

SCHEMATIC DIAGRAM FOR MODE



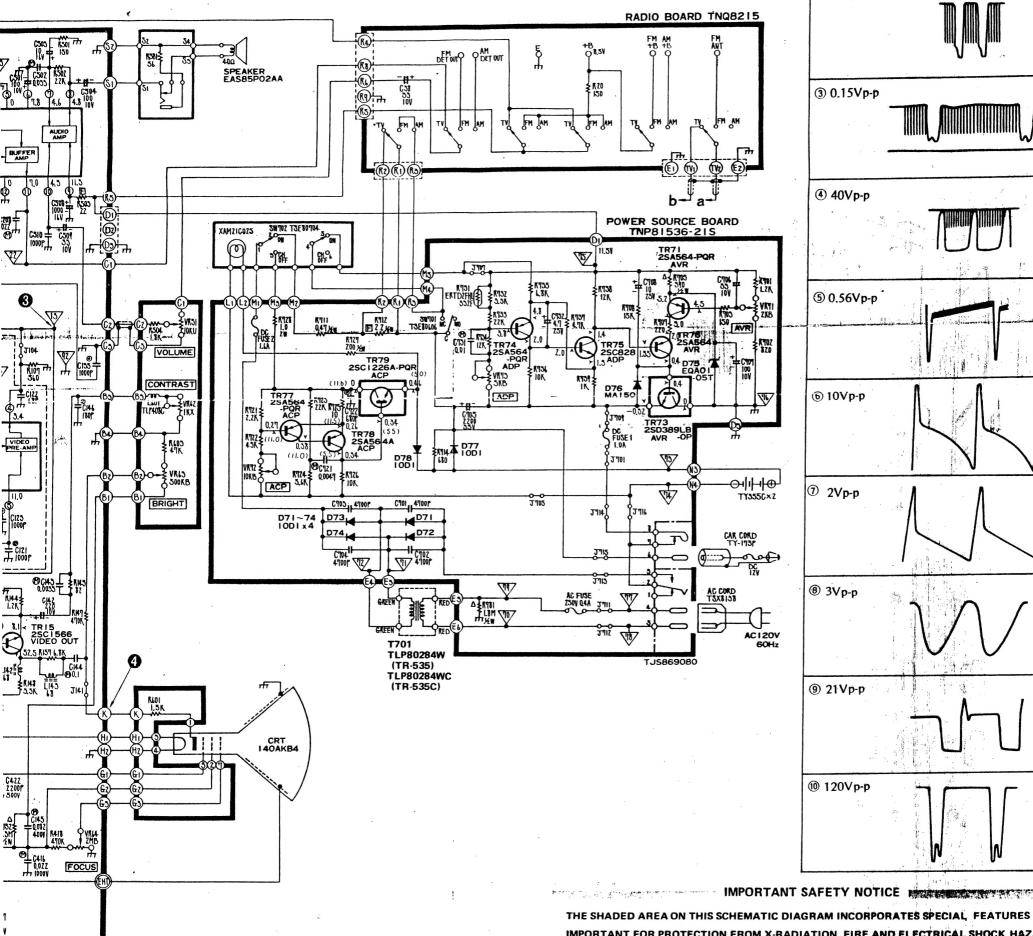
IC TERMINAL INFORMATION

TRANSISTOR BASE INFORMATION



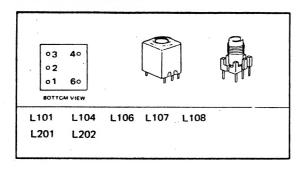
These waveforms were taken with normal signal. The peak-to-peak voltage were taken with brightness and contrast controls set for maximum position. ① 23Vp-p ② 0.15Vp-p 3 0.15Vp-p 40Vp-p ⑤ 0.56Vp-p ⑥ 10Vp-p ⊖નોનિભ ⑦ 2Vp-p ® 3Vp-p 9 21Vp-p 1 120Vp-p IMPORTANT SAFETY NOTICE IMPORTANT FOR PROTECTION FROM X-RADIATION, FIRE AND ELECTRICAL SHOCK HAZARDS. WHEN SERVICING IT IS ESSENTIAL THAT ONLY MANUFACTURER'S SPECIFLED PARTS BE USED FOR THE CRITICAL COMPONENTS IN THE SHADED AREAS ON THE SCHEMATIC. : Metal oxide resistor + : Thermistor at they parasine →M√+ : Fuse resistor All capacitors are ceramic 50V capacitor, unless otherwise noted the following marks. (S) : Polystylene capacitor all controls are set to the maximum position 7. When arrow mark (/) is found, connection is easily found along with the direction of an arrow.

R MODELS TR-535 & TR-535C



TRANSFORMER TERMINATION INFORMATION

TNP81829-21



NOTE

All resistors are carbon 1/4W resistor, unless otherwise noted the following marks.

Unit of resistance is OHM (S2). (K=1,000, M=1,000,000)

Δ : Solid resistor

☐ : Wire wound resistor

2. CAPACITOR

Unit of capacitance is μF , unless otherwise noted.

M : Polyester capacitor + | : Electrolytic capacitor

3. COIL

Unit of inductance is μH . 4. TEST POINT

 $\overline{\mathbb{V}}$: Test point position.

5. VOLTAGE MEASUREMENT Voltage is measured by a volt ohm meter with DC 20K OHM/V receiving normal signal, when

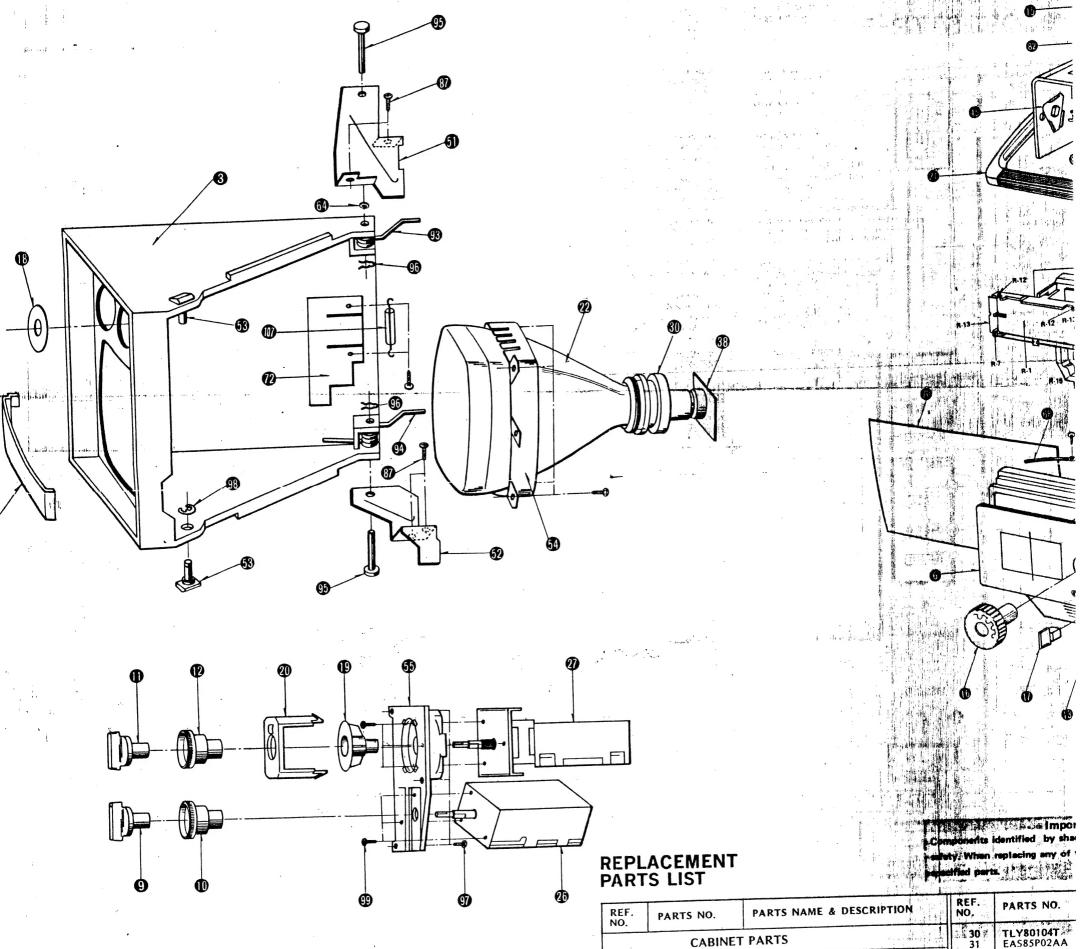
The voltage in parenthesis is measured when the power switch is set to "off" position.

6. Number in red circle indicates waveform number

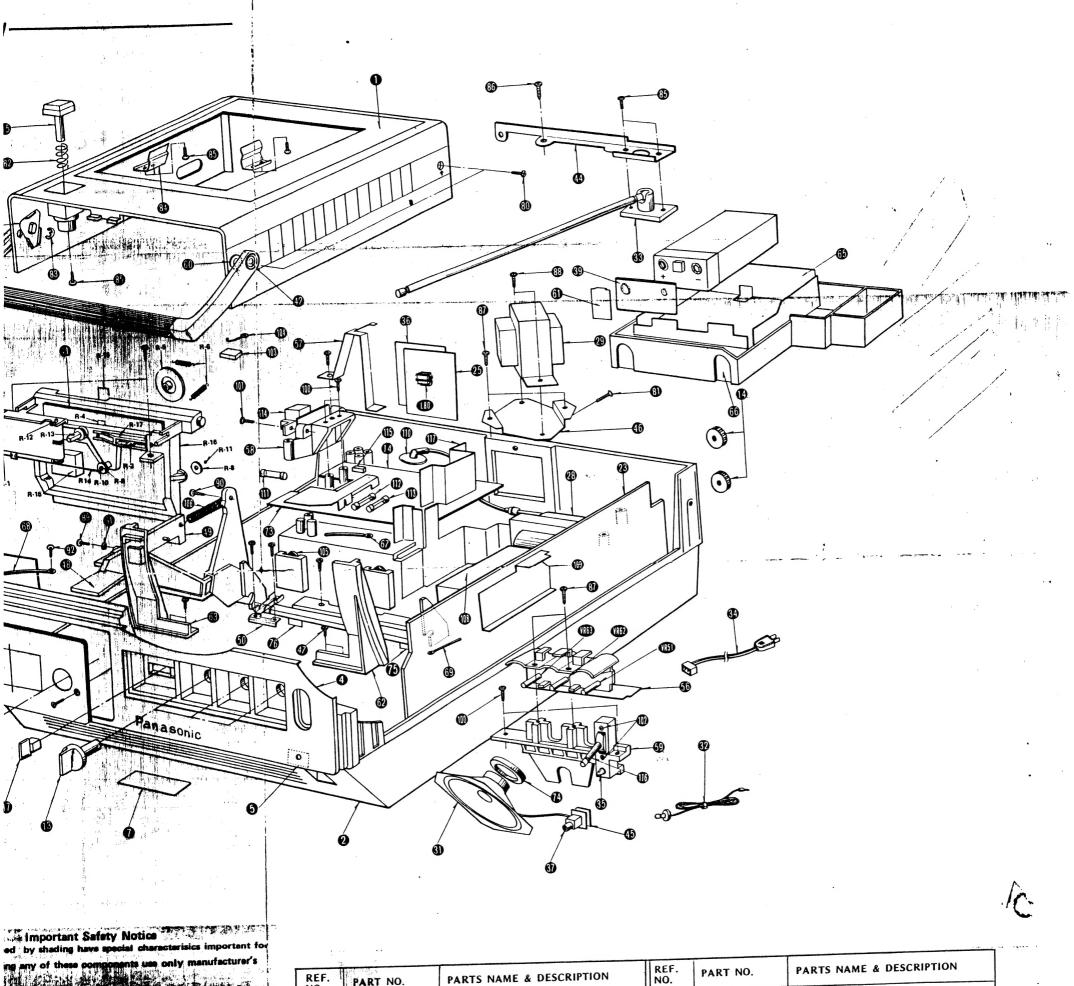
8. When schematic diagram of a board is described in more than two places, they are encircled with dotted line (---).

9. This schematic diagram is the latest at the time of printing and subject to change without notice.
[May 1975]





•	,,,,,	-	1 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
	REF.	PARTS NO.	PARTS NAME & DESCRIPTION	REF. NO.	PARTS NO.
1	110.		DARTE	30 *	TLY80104T
١		CABINET	PARIS	31 32	EAS85P02AA EAE3YDAA
1				32	EAESTUAN
١	1	TKY802301	Upper Cabinet Under Cabinet Complete	33	TSA141-15
1	2	TKY802101-1H (TR-535)	Under Cabinet Complete	734	TSX8138
	2	TKY802101-2H	Under Cabinet Complete	35	XAM21C025
١	2 .	(TR-535C)	6.7 Simble Hara	36 37	TJB802425 TJS869070
	3	TKY802201-1H	Escutcheon Complete	3,	113805070
	4	TKP8052751	Aluminum Panel	138	T1525640
١	_	TKK39317	Lamp Indicator Plate	L80	TLR809316
١	5 6	TKP8011591-1	Radio Transparent Plate	39	TJB80906-1
	7	TBM82628-1	Model Plate		TPC803271 (TR-535)
					TPC803321
نت ٠	7.4	TBM82643	Model Plate Marian	Manager on contract at the	(TR-535C)
		(TR-535C)	•	þt.	
	8	TKG809638	Front Glass		XAPD01535
	9	TBX80765	VHF Channel Knob		TPE84023 TOB83494
	10	TBX80758-1	VHF Fine Tuning		(TR-535)
	11	TBX80759	UHF Channel Knob	•	TQB83508
	12	TBX80757-1	UHF Fine Tuning		(TR-535C)
	13	TBX80581-1	Small Knob		TQB82494
	14	TBX80583-1	Vert./Horiz. Knob		(TR-535)
	15	TKK809810	Pon-un Botton	11	TQB82508
	16	TBX80582	Radio Tuning Dial Knob		(TR-535C)
	17	TBX80557-3	Radio-TV Selector Knob VHF Indicator Plate		TQB82500
	18	TKP8010961 TKK800357-4	LINE Indicator Plate		TQD8112069-
	19 20	TKK800357-4	UHF Indicator Transparent Plate		(TR-535) TOD8111266
	21	TKK800226	Handle Complete	11:	(TR-535C
	22	140AKB4	Picture Tube		11103350
	23	TNP81829-21	Main Circuit Board Complete		TQB32894P
	24	TNP81536-21	Power Circuit Board Complete	-	
	24	TNP81944-1H	U/V Signal Separator Circuit	41	TNQ8215
			Board Complete	DD	ACKETS
	26	TNT4661E	VHF Tuner	BK	ACKLIS
	27	TNK36911AE	UHF Tuner Flyback Transformer	42	TKK809240
	28	TLF80805' TLP80284W	Power Transformer	42	TKZ800925Z
	1. 29	" (TR-535)		44	TUW80977Z
			Power Transformer	45	TMK81252
	29	TLP80284WC	TOWN THE BOOK OF	11	1
	•				



M. C.		REF. NO.	PART NO.	PARTS NAME & DESCRIPTION	NO.	PART NO.	FARTS NAME & BESCH
		1	i multi				Antenna, Pop-up Button, Pop-up Block
TS NO.	PARTS NAME & DESCRIPTION		TUX80284C	Power Transformer Mounting Bracket	85	XTB4+12A	Stopper Mounting Screw
12 NO.	TAN IS TANK	46	TKX804101	Lock Shaft		VCD2+85	Antenna Terminal Bracket
	The state of the s	47	TKX804101	Lock Shaft Arm	86	XSB3+85	Mounting Screw
80104T ⊯a	Deflection Yoke	48		Lock Shaft Arm Mounting Bracket			
B5P02AA	Speaker	49	TKX804301	Lock Shaft Holder	87	XTB4+15A	Power Circuit Board, Volume Block
3YDAA	Earphone	50	TKZ809916	I now up Block Mounting Bracket, (A)	07	XIB4.13A	Charler Poneun Block Mounting Screw
אסונ	19 %	51	TKZ809914C	Pop-up Block Mounting Bracket. (B)	88	XTB4+8B	name Transformer Mounting Screw
141-15	Rod Antenna	52	TKZ809915C	Pop-up Block Mounting Bracket.	89	XTB4+12A	Lock Shaft Arm Mounting Screw
8138	Power Cord	53	TKX804901	Lock Pin		XTV3+6A	Lock Shaft Spring Mounting Screw
0130 小河南海洋	Pilot lemp	54	TKW80961-4	Picture Tube Band	90		Lock Shaft Arm Mounting Washer
121C025	Antenna Terminal Board Complete		(TR-535)		91	XWG4	LOCK SHAPE / LOCK
302425	Earphone Socket	54	TUW80961-4	Picture Tube Band	İ	NTT 1.154	Radio Mounting Screw
69070	Carpindie advisa		(TR-535C)		92	XTB4+15A	Pop-up Spring (Right)
	Picture Tube Socket	55	TKX803701	Tuner Mounting Bracket	93	TES8217	Pop-up Spring (Right)
!5640		56	TKX804601	Volume Mounting Bracket	94	TES8220	Pop-up Spring (Left) Pop-up Block Mounting Shaft
809316	Balun Coil	57	TES8123	Pon-un Switch Spring	95	TEL8116	Pop-up Block Mounting Share
30906-1	Battery Terminal Complete	58	TKX804401	Power Cord Socket Holder	96	TES8127	Pop-up Block Holding Pin
803271	Outer Carton	59	TKX804501	Speaker Stopper	97	XTB4+15A	Tuner Block Mounting Screw
TR-535)			TKK809239	Handle Bushing	98	TES8126	F-Ring
803321	Outer Carton	60	1KK809239	Transit Seems	99	XTV3+10B	Tuner Mounting Screw
TR-535C)	1			Battery Terminal Plate	100	XTB3+12A	Speaker, Pop-up Block Mounting Screw
[K-333C]		61	TJC80310	nianura Tube Variare Holder (A)	100	X185.12/	
'D01535	Filler Complete	62	TKX803901	Picture Tube Variare Holder (B)			Power Cord Socet Mounting Screw
84023	Set Cover and the	63	TKX804001	Shaft Cover	101	XTB4+12A	Power Switch Mounting Screw
83494	Fan Bag	64	TKX804801	Shart Cover	102	XSB3+65	4P Coupler
	1			a Caract	103	TJT8504M	
TR-535)	Fan Bag	65	TMK81941-1	Battery Spacer Battery Lead Mounting Bracket	ll .	TJT487	1P Coupler
183508		66	TMK81253	Battery Lead Mounting Bracket	H	TJT885	1P Chip
TR-535C)	Instruction Book		1				an Complex
182494	Instruction door	67	TMK81936	Power Circuit Board Lead	11	TJT8503M	3P Coupler
TR-535)		٧,	1	Mounting Bracket	11	T1T8505M	5P Coupler
•		68	TMK81937	Radio Lead Mounting Bracket	11	TIT8707M	Coupler Terminal (Slender)
182508	Instruction Book	00	TWIKETSST	1	104	T1T8708M	Coupler Terminal (Thick)
TR-535C)			TMK81939	Main Circuit Board Lead Mounting Bracket	104	1,107	l l
182500	Instruction Sheet	69	TMK81934	Picture Tube Barrier	105	TES8218	Battery Terminal Spring
28112069-8	Fact Tag	70		Escutcheon Lead Spacer	106	TES8216	Lock Shaft Spring
/TD (25)		72	TMK82142-1	Power Circuit Board Spacer	107	TES8304	Lead Wire Mounting Spring
(TR-535)	Fact Tag	73	TMK81940	Power Circuit Board of			
38111266	Table 148 to Miles and the second sec			Speaker Mounting Rubber	11	RESISTOR	
(TR-535C)	The state of the s	74	TMM81556	Cushion Rubber (A)	[]		Ceramic 3PF +0.25PF-0.25PF 500V
1.11	1 - Cart	75	TMM81562	Cushion Rubber (B)	R91	ERC12ZGK185	Ceramic 3PF +0.23FF-0.23TT 300
332894P	Battery Instruction Book	76	TMM81563	Cushion Rubber (b)		CARACITORS	
æ _n					11	CAPACITORS	
⊋821 [©]	FM/AM Radio Complete				11	1	Solid 1.8MOhm +10%-10% 3/W
		9	CREWS, WASHERS	& SPKING	C91	ECCD2H030C	Solid Lawollin
rs ·	, and the work	1	1				1000BE +20%-20% 500V
	The state of the s	80	XTB4+15AFC	Upper Cabinet Mounting Screw	C92	ECCD2H102MB	Ceramic 1000FF 120% 20%
	11 - 41- Mounting Pin	81	XSS3+20FNKS	Antenna Terminal Mounting Science	C93	ECCD2H020C	Ceramic 2PF +0.25PF-0.25PF 500V
K809240	Handle Mounting Pin	82	TES8215	Pon-up Botton Spring	11 693	ECCD2H020C	Ceramic 2PF +0.25PF-0.25PF 500V
Z800925Z	Handle Mounting Bracket		TES8130	Handle "U" Ring	C94	ECCD2H010C	Ceramic =1PF +0.25PF = 0.25PF 500V
*********	A	83	1 15.50130	1 Handre 9	11 7.05	1 711 117110100	